

Eco Glass is fully licensed and authorized by 3M to provide our clients with their top-tier products and provide direct 3M warranties. Eco Glass has been working with window films for over 15 years in both New Zealand and Hong Kong. Over the years our clients and projects have ranged from high-end art collectors to various government agencies, technical institutes, offices and home-owners who have been looking for ways to control heat and ultraviolet radiation within their premises whilst saving energy and costs at the same time.



Our Warranty

3M & Eco Glass ensures a 5 - 10 YEARS PRODUCT & 10 YEARS INSTALLATION warranty for peace of mind.



Our Team

Eco Glass has extensive 15 YEARS' experience and knowledge in the window film industry both in HONG KONG & NEW ZEALAND.



Our Company

Eco Glass is the leading
WINDOW FILM INSTALLATION
company targeting pre-existing,
new build residential
domiciles & commercial spaces.











INCREASE EFFICIENCY

Energy bills can significantly be reduced by simply applying 3M solar window film to the windows. This is undoubtedly one of the main reasons why solar control films have become so popular for all properties, representing a rapid positive return on property owners' initial investment – savings in energy bills can be of as much as 30% of a standard bill.

MAINTAIN APPEARANCE

appearance and provides a high solar heat reduction. In general, the darker the film = the less heat and glare coming through the glass. However, with some of the newer films, a lot of heat is controlled with a much lighter film such as the 3M Prestige 70 film which is nearly invisible.





FADING PROTECTION

3M Window Films are designed to reduce the effects of solar heat and visible light on your furnishings and will block up to 99% of the sun's harmful ultraviolet rays, which are the single largest cause of fading.

Savings you can see.

GET A FAST PAYBACK WITH SIGNIFICANT SAVINGS.

The Department of Energy considers window film a top-tier technology for energy conservation with one of the fastest paybacks — approximately three years. Upgrading your windows with 3M Window Film can help you achieve significant savings. You could save \$1 to \$2 per square foot of film installed, or as much as 19 kWh per square foot of glass. Building owners around the world are already taking advantage of these savings — isn't it time you did too?

Reduce heat gain in summer months by up to 79%

Save as much as 19 kWh per square foot of glass

Fast payback — as little as 3 years

Many utility companies offer incentives

3M Window Films are proven to save energy in all climate zones

3M can complete an Energy Plus energy audit on your building to calculate your projected savings

REDUCE YOUR ENERGY USE AND YOUR CARBON EMISSIONS.

Taking control of your environment with 3M Window Films is better for our environment. By rejecting the heat of the sun, you use less energy. By keeping your window treatments open, you use less electric lighting and save on energy costs. By upgrading your existing windows, you're keeping them out of the landfill.

Keep your existing windows
Reduce light pollution
Let in natural light while rejecting heat
Lower your energy consumption
Help qualify for LEED credits
3M Window Films can become carbon negative in as short as 6 months from install

Eco Glass is under the 3M Window Film Authorized Applicator Program and the 3M technical team regularly conduct site visits and inspections to ensure workmanship and finishing is to the highest standards.

Government Tax Incentives & Funding Assistance

In the "Hong Kong's Climate Action Plan 2030+", the HKSAR Government has set a target of 65% to 70% reduction of carbon intensity by 2030 using 2005 as the base year. This plan revealed that buildings consume about 90% of electricity in the territory. Here are some subsidies for energy-saving improvement works in communal areas of residential, commercial and industrial buildings.

ACCELERATED DEDUCTION UNDER PROFITS TAX: ENERGY EFFICIENCY REGISTRATION SCHEME FOR BUILDINGS (HKEERSB)

With effect from 1 January 2018, new or existing buildings/premises that have achieved Final Bronze rating or above under BEAM Plus NB, EB or BI are eligible to register. Capital expenditure incurred in the installation/construction of energy efficient building installations registered under HKEERSB is eligible for accelerated deduction under profits tax.

BEAM PLUS

Globally, there are a number of localised green building certification systems, which are independent tools that could showcase and compare the environmental performance of buildings, such as BREEAM for United Kingdom and LEED for United States. In Hong Kong, BEAM Plus is the current assessment tool adopted in the market.

CLP SUBSIDY - ECO BUILDING FUND

Up to HK\$500,000 in subsidies for energy-saving improvement works.

Under the CLP Eco Building Fund, residential, commercial and industrial buildings can receive subsidies for energy-saving improvement works. The fund awards up to HK\$100 million every year. Through the fund, we hope to subsidise 400 buildings a year and save up to 48 gigawatt hours.

HK ELECTRIC SMART POWER FUND

Energy Efficiency Enhancement Projects

Communal building services installations (e.g. lighting, air-conditioning, lift, escalator, electrical installation, etc.) retrofitting, retro-commissioning (RCx) or building-based smart technology projects.



Jockey Club BEAM Plus in Schools Project

Schools and universities consume about 4% of the electricity in the public sector of existing buildings. Funded by The Hong Kong Jockey Club Charities Trust, the "Jockey Club BEAM Plus in Schools Project" is launched to assist 120 Primary and Secondary schools in Hong Kong to reduce carbon footprint and to promote the concept of green building to the next generation.



This pioneering project assists the participating schools on various enhancement including the replacement works of energy efficient equipment. A tailored BEAM Plus assessment tool for existing schools will also be created to assist schools in acquiring the BEAM Plus certification. In this project, Eco Glass has been responsible for the application of 3M window film to over 30 schools.

LOW CARBON RETROFITTING EQUIPMENT - SOLAR CONTROL WINDOW FILM

Installing solar control window film can avoid the incremental increase in room temperature by reducing solar radiation entering the room. Air-conditioners therefore can use less energy to maintain cooling at indoor environment, to save energy and reduce carbon emissions.

After Business Environment Council's site inspection and evaluation at the participating schools, the 3M solar control window films will be applied on the windows with strong sunlight. Together with the low carbon equipment in our project, schools' energy efficiency will be enhanced significantly to achieve net-zero carbon emission.







6,000m²

in 2021-2022







Revitalisation of Industrial Buildings 活化工廈

Eco Glass is proud to be part of the Government of the HKSAR for revitalization of Kader Building in Kowloon Bay. The project was completed in early 2022 and has been seen to reduce carbon emission intensity by 5% when compared with the baseline in 2021.

Installed
12 floors for over

1,700m²









M+ Museum, West Kowloon Cultural District

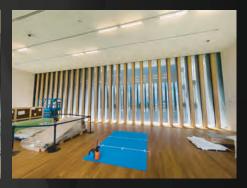












Residential Projects

Our team of professional installers at Eco Glass works territory-wide across Hong Kong, Kowloon and the New Territories. Whether large or small scale, our team is committed to giving our clients the highest quality film installation.

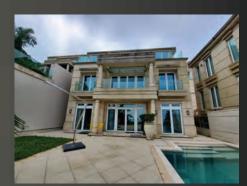
























Commercial Projects

We have a wealth of expertise and experience in commercial installation projects. The team is well skilled in warehouse, factory, commercial office, hospital, institutional, educational, storage and mercantile buildings and our experts are ready to present and recommend any type of 3M film to suit your buildings needs.



























Let in the light. Not the heat. Superior comfort and clarity with 3M ™ Sun Control Window Film Prestige Series.

- ► High visible light transmission providing excellent aesthetics
- ▶ Up to 97% infrared rejection providing energy savings and enhanced comfort*
- ► Low interior and exterior reflectivity enhances views while maintaining exterior appearance
- ► Non-metalized film with no signal interference and no chance for corrosion
- ▶ Helps extend the life of furnishings by significantly reducing harmful UV rays, the largest cause of fading
- ► The Prestige Series can become carbon negative in as short as 6 months from install**
- ► Comprehensive warranty from **3M**

Visible Light Transmission

Low Reflection

A ★ ★ ★ ★

Infrared Rejection

Best ****

Better ***

Good ***

Fair **

Not Recommended *

In comparison to other 3M Sun Control Window Films



Beauty and performance that metallic films can't match.













^{*}IR Rejection as measured from 900–1000nm

** Based on emission calculations performed in compliance with the GHG
Protocol Product Life Cycle Accounting and Reporting Standard (2011),
third party assured by Quality Associates incorporated and energy savings
calculation completed by CONSOL Energy. Contact 3M for details.







Product Performance and Technical Data

			Visible Light		Total Solar Energy Rejected		Solar	U Value					
Glass Type (All 1/4")	Film Type	Reflected (Interior)	Reflected (Exterior)	Transmitted	Normal	60 Degree Angle	Heat Gain Coefficient (G Value)	btu/ hft²F	w/ m²K	Solar Heat Reduction	UV Light Rejected	Glare Reduction	Visible Light to Solar Heat Gain Ratio
-/-	PR20	5%	6%	21%	62%	65%	0.38	1.03	5.8	54%		76%	0.6
	PR40	7%	7%	39%	60%	66%	0.40	0.99	5.6	50%		55%	1.0
	PR50	7%	8%	50%	56%	63%	0.44	0.99	5.6	46%	99.9%	44%	1.1
Cl	PR60	8%	8%	60%	53%	61%	0.47	0.99	5.6	42%		32%	1.3
Clear	PR70	9%	9%	69%	50%	59%	0.50	0.99	5.6	38%		22%	1.4
	PR20	5%	5%	13%	64%	67%	0.36	1.03	5.8	43%		76%	0.4
	PR40	6%	5%	24%	63%	67%	0.37	0.99	5.6	41%		55%	0.6
	PR50	6%	6%	30%	61%	66%	0.39	0.99	5.6	38%	99.9%	43%	0.8
	PR60	7%	6%	36%	59%	63%	0.41	0.99	5.6	34%		32%	0.9
Tinted	PR70	7%	6%	42%	57%	63%	0.43	0.99	5.6	31%		22%	1.0
	PR20	5%	13%	19%	50%	57%	0.51	0.47	2.7	28%	-	77%	0.4
	PR40	8%	14%	35%	49%	54%	0.51	0.47	2.7	27%		55%	0.7
	PR50	9%	15%	45%	47%	53%	0.53	0.47	2.7	25%	99.9%	44%	0.8
	PR60	11%	15%	54%	46%	54%	0.54	0.47	2.7	22%		32%	1.0
Double Clear	PR70	13%	15%	62%	44%	50%	0.56	0.47	2.7	21%		22%	1.1
	PR20	5%	8%	11%	61%	68%	0.39	0.47	2.7	24%		76%	0.3
	PR40	8%	8%	21%	61%	64%	0.39	0.47	2.7	23%		55%	0.5
	PR50	9%	8%	27%	60%	64%	0.40	0.47	2.7	22%	99.9%	44%	0.7
	PR60	10%	8%	32%	59%	64%	0.41	0.47	2.7	20%		32%	0.8
Double Tinted	PR70	12%	8%	37%	59%	62%	0.42	0.47	2.7	18%		22%	0.9









Enjoy enhanced views, savings and comfort with 3M™ Sun Control Window Film Night Vision™ Series.

- ► Great heat rejection helps provide energy savings and improved comfort
- ► Enhanced views with low interior reflectivity, especially at night
- Helps reduce glare and eye discomfort
- ► Helps extend the life of furnishings by significantly reducing harmful UV rays, the largest cause of fading
- ► Excellent scratch-resistant coating
- ▶ 3M nano-technology enhances color stability
- Comprehensive warranty from 3M

Energy Savings	****
Heat Rejection	****
Glare Reduction	****
Interior Visible Reflection	***

Best ****

Better ***

Good **

Fair **

Not Recommended **

In comparison to other 3M [™] Sun Control Window Films.

Product Performance and Technical Data

		Visible Light				Solar	U Value					
Glass Type (All 1/4")	Film Type	Reflected (Interior)	Reflected (Exterior)	Transmitted	Total Solar Energy Rejected	Heat Gain Coefficient (G Value)	btu/ hft²F	w/ m²K	Solar Heat Reduction	UV Light Rejected	Glare Reduction	Visible Light to Solar Heat Gain Ratio
	Night Vision 15	11%	38%	15%	72%	0.28	0.98	5.6	66%		83%	0.5
	Night Vision 25	7%	19%	24%	61%	0.39	1.00	5.7	52%	99%	73%	0.6
Clear	Night Vision 35	7%	13%	36%	52%	0.48	1.03	5.8	41%		59%	0.7
T T	Night Vision 15	11%	16%	9%	70%	0.30	0.98	5.6	52%		82%	0.3
	Night Vision 25	7%	10%	14%	64%	0.36	1.00	5.7	43%	99%	74%	0.4
Tinted	Night Vision 35	6%	8%	22%	58%	0.42	1.03	5.8	33%		58%	0.5
γ/π/1	Night Vision 15	11%	39%	14%	60%	0.40	0.46	2.6	43%		82%	0.4
	Night Vision 25	8%	24%	22%	51%	0.49	0.47	2.7	29%	99%	72%	0.4
Double Clear	Night Vision 35	8%	19%	32%	45%	0.55	0.47	2.7	21%		60%	0.6
M	Night Vision 15	11%	17%	8%	68%	0.32	0.46	2.6	37%		83%	0.3
	Night Vision 25	8%	12%	13%	63%	0.37	0.47	2.7	27%	99%	73%	0.4
Double Tinted	Night Vision 35	7%	10%	19%	59%	0.41	0.47	2.7	19%		60%	0.5

Save energy by day. Enhance views by night.



















Bomb Blast and Explosion Protection

 Help protect people from flying glass shards, one of the most common causes of blast related injuries and fatalities

Completed Testing

- ► ASTM F1642
- ► GSA TS01-2003
- ▶ ISO 16933



Safety Glazing and Human Impact

- Upgrade your glass to meet safety glazing codes*
- Help protect your occupants from broken glass hazards

Completed Testing

- ► ANSI Z97.1
- ▶ 16 CFR CPSC 1201
- ► EN 12600



Break and Entry

- Provides precious time by helping to deter unwanted individuals from entering your building or home
- ► Help protect occupants and assets

Completed Testing

 Independent lab evaluations, contact 3M for details



Seismic and Spontaneous Glass Breakage

 Help keep glass fragments from falling from your windows, helping to protect people and potentially reducing injuries on your property

Completed Testing

- ► ANSI Z97.1
- ▶ 16 CFR CPSC 1201

Film Properties (nominal) — not for specification purposes

Film Type	Film Thickness	Construction	Tear Resistance	Tensile Strength	Break Strength	Elongation at Break	Peel Strength	Abrasion Resistance
Ultra 800	8 mil (0.20mm)	Micro-layered	1,200 lbs%	32,000 psi (220 MPa)	255 lbs/in (1,134 N / 25mm)	130%	> 6 lbs/in (27 N / 25mm)	<3%

Our Clients

Education-related Organisations:

Chun Tok School

City University of Hong Kong

ECF Saint Too Canaan College

Fung Kai Innovative School

Hong Kong Taoist Association Chan Lui Chung Tak Memorial School

Ju Ching Chu Secondary School (Tuen Mun)

Lok Sin Tong Lau Tak Primary School

Man Kiu Association Primary School

Maryknoll Convent School (Primary Section)

Po Leung Kuk Dr. Jimmy Wong Chi-Ho Primary School

Po Leung Kuk Luk Hing Too Primary School

Po Leung Kuk Tong Nai Kan Junior Secondary College

Pui Ching Primary School

S.K.H. Wei Lun Primary School

Saint Antonius Girls' College

St. Andrew's Catholic Primary School

St. Catharine's School for Girls

St. Paul's Secondary School

St. Paul's Co-educational College

The Evangelical Lutheran Church of HK Wo Che Lutheran School

The Hong Kong Institute of Vocational Education (Haking Wong)

The Mission Covenant Church Holm Glad College

TWGHs Kap Yan Directors' College

TWGHs Leo Tung-hai Lee Primary School

TWGHs Ma Kam Chan Memorial School

TWGHs Sun Hoi Directors College

TWGHs Wong Fung Ling College

TWGHs Wong See Sum Primary School

TWGHs Wong Yee Jar Jat Memorial Primary School

Wai Chow Primary School

Government Bodies and Public Facilities:

Agile Group

Citibank Hong Kong

City University of Hong Kong (CityU)

Drainage Services Department

Heliservices Limited

HKSAR, Architectural Services Department

Hong Kong Jockey Club

Hong Kong Judiciary HKSH Medical Group Limited

Hospital Authority

Hong Yip Services Company Limited

Harbour Place | Hung Hom

MTR Corporation Limited

New Life Psychiatric Rehabilitation Association Oasis Kai Tak | Kai Tak

Po Leung Kuk Jolly Net

River Cam Chinese Medicine & Acupuncture Clinic

Sino Group

Sinopec (HK) Petrol Filling Station Co.Ltd

St. James' Settlement

Tai Hung Fai Enterprise Co. Ltd. - Artique at Sheung Shui

The Hong Kong Society for Rehabilitation

The Henley | Kai Tak

The Giverny | Pak Sha Wan

West Kowloon Law Court Building

Yan Chai Hospital

Yang Memorial Methodist Social Service

Yue Man Square

Art Gallery and Museum:

Asia Art Archive

M+ Museum, West Kowloon Cultural District Villepin

F & B and Hospitality:

Bones and Blades

Boy and Burger

Bread Elements Limited-Bake House

Café de Coral Holdings Limited

Hong Kong Theme Park Limited (Disneyland)

Koh Tom Yums | Discovery Bay

Mira Moon Hotel

Noah's Ark Hotel and Resort Ltd

Nha Trang | Authentic Vietnamese Cuisine

The Fullerton Ocean Park Hotel Hong Kong

The Greater China Restaurant Co., Limited

Tsui Wah Restaurant

Designer / Architecture Firms:

Alto Plus Design Solution Group Limited

Bean Buro

Boss Design Ltd

Cypress Design Ltd.

Drops Design Company

Hintegro

Jones Lang LaSalle

Lam's Construction

LN Design Studio

Meta4 Design Forum Ltd

MJPM Design & Build

PacificPlan Project Management Limited

Pure AW's Designers Ltd

Richards Basmajian

Sky Construction Company Limited

The Jardine Engineering Corporation

Others:

Esthe Clinic

Great Harvest Group

GC Luckmate Limited

Hong Kong Tenet Company Kader Holdings Company Limited

Malca-Amit

NextWave Yachting Limited

Panasonic Life Solutions

Refratechnik Asia Ltd.

Synergy Distribution Limited

Simpson Marine Limited

Toppan Printing Co., (H.K.) Ltd.

Toyota Tsusho (HK) Corporation Limited

Total Group

Trelleborg Sealing Solutions Hong Kong Ltd



Ref: T-RE-L18249 Nov 28, 2018 3M Hong Kong Limited 5th Floor, Victoria Centre 15 Watson Road, Hong Kong Tel: 28066111 Fax: 28071308

To our dearest 3M Window Film's Authorized Applicators:

The notification of Joint Warranty information updates

This letter is to notify the joint warranty information updates for 3M and our Authorized Applicators regarding to 3M Sun Control Window Film and Safety & Security Film applications as below:

Film Model		Residential		Commercial					
(Application)	Standard	Maximum ¹	Open Window ²	Standard	Maximum ¹	Open Window ²			
NV series / P-18 (interior)	3 years	3 years	1 year	3 years	5 years				
PR series (interior)	5 years	5 years	1 year	5 years	10 years	1 year			
PR ex series	3 years (vertical)	3 years (vertical)	3 years (vertical)	5 years (vertical)	7 years (vertical)	3 years (vertical)			
(exterior)	TBC (slope	/ horizontal) ³	N.A.	3 years (slope / horizontal) ³	5 years (slope / horizontal) ³	N.A.			
PR S series (interior)	5 years	5 years	1 year	5 years	10 years	1 year			
Ultra S series (interior)	5 years	5 years	1 year	5 years	10 years	1 year			
Ultra S ex series	TBC (vertical)	N.A.	TBC (vertical) TBC (slope / horizontal) ³		N.A.			
(exterior)	TBC (slope	/ horizontal) ³	N.A.			N.A.			
Neutral series (interior)		None		None					

¹ Pre-approval by 3M is required.

Remarks: The information above is for reference only, it may change frequently without immediate announcement or notice. For the most updated warranty details, please contact 3M at your convenience.

If you have any question, please feel free to contact us.

Yours faithfully, 3M Hong Kong Limited

Turis Li

Advanced Technical Service Engineer Technical Department

² Apply on interior size.

³ Edge sealing is required.







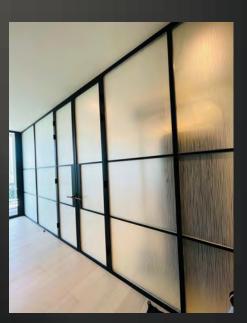














Signage & Graphics | 3D Signage | Digital Printing | Outdoor Billboard | Vehicle Signage and Branding



JAG Hong Kong brings you the most effecient and highest standards of creativity, workmanship, and customer support FROM SIGN DESIGN AND PRODUCTION TO INSTALLATION.



Our Team

JAG Hong Kong has extensive 15 YEARS' experience and knowledge in the graphic film industry both in HONG KONG & NEW ZEALAND.



Our Company

JAG Hong Kong is the leading GRAPHICS FILM INSTALLATION company targeting graphic solutions for pre-existing, new build commercial spaces.

Our sign makers are there to help with your specific requirements every step of the way. Whether you're wanting regional or nationwide signage roll-out, your dedicated JAG Hong Kong contact will ensure delivery of your professional signage quickly and efficiently. We take pride in our work and we are committed to design and manufacture world-class signs for businesses and organizations throughout Hong Kong.







HANG SENG BANK HEADQUARTERS, CENTRAL To celebrate the 90th anniversary of Hang Seng Bank in 2023, upgrading project of the entire Hang Seng Head Office will be carried out in phases.

JAG Hong Kong, working with the international illustrator Messy Desk, jointly completeted the engineering of the hoarding. Over 10 meters in height and over 4000 meters squared, the hoarding was transformed into a 24-hour giant art exhibition area, exhibiting local artists to celebrate the 90th anniversary of Hang Seng, drawing illustrations with Hong Kong characteristics, conveying the brand value of Hang Seng.

Over 10 meter height, and average 4 meters 2,000m²

Graphic sticker are installed



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Eco Glass - 3M Authorized Applicator



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